

# MATERIAL SAFETY DATA SHEET

## Duracool® SystemSeal™

### SECTION 1 – IDENTIFICATION

**Company:** Duracool Refrigerants, Inc.  
10260 - 21 Street NW  
Edmonton, Alberta T6P 1W4 Canada  
**Telephone** (780) 449-4777  
**Fax** (780) 449-4766

**Product Name:** Duracool® Systemseal™  
**Proper Shipping Name:** Consumer Commodity, ORM-D  
**UN NUMBER:** None  
**HAZARDOUS GOODS:** None  
**USES:** Refrigeration Systems

**CHEMTREC – TOLL FREE 24 HOUR EMERGENCY  
TELEPHONE NUMBER 1-800-424-9300**

### SECTION 2 – PHYSICAL DESCRIPTION AND/OR PROPERTIES

Appearance/Odor: Colorless      Liquid; Amine odor Physical State: Liquid  
Odor Threshold: N/A      Specific Gravity: 9.1  
Coeff. Water/Oil Dist.: N/A      Evaporation Rate: < 1  
Freezing Point: N/A      Boiling Point: 143°F  
Vapor Density: (est.)      Heavier than Air pH: N/A  
Vapor Pressure: 117.74 hpa

### SECTION 3 – FIRE OR EXPLOSION HAZARD

**Extinguish Media:** Water spray or foam  
**Hazardous Combustion Products:** Burning can produce oxides of carbon and silicone  
**Sensitivity to Static Discharge:** n/a  
**Explosion Data:** n/a  
**Fire and Explosion Hazard:** Product is flammable, vapor may form as mixed with air.

### SECTION 4 – INGREDIENTS

Hazardous Ingredients	%	Cas Number	LD50	P.E.L.	ACGIH TLV UNITS
Ethanol	<1-13	64-17-5			1000 PPM
Proprietary (trade secret)	<15				
Alkanes	<0-70		n.ap.	800 PPM	800 PPM

### SECTION 5 – REACTIVITY DATA

**Chemical Stability:** This material is chemically stable.  
**Conditions To Avoid:** Propellant is flammable, avoid ignition source.  
**Incompatible Materials:** Reacts to water or moisture to form ethanol.  
**Decomposition Products:** Burning of this product can produce oxides of carbon.  
**Hazardous Polymerization:** Will not occur.  
**Polymerization To Avoid:** Non known.

## **SECTION 6 – HEALTH HAZARD**

**Inhaled/Asphyxiant:** This product may cause irritation of the respiratory tract. May also cause headaches or dizziness at moderate exposures. Heavy exposure may cause anemia and irregular heart rhythm, respiratory arrest and death at elevated exposures.

**Ingestion:** Not likely to occur. May cause vomiting or nausea.

**Eye Contact:** Irritating if the liquid propellant gets into eyes, with a possible hazard from freezing due to rapid evaporation. Extremely high vapor concentration may also be irritating.

**Skin Contact:** Exposure to propellant liquid may cause frost damage to tissue. Prolonged contact may irritate the skin and cause dermatitis.

**Chronic:** Prolonged exposure to the propellant in this product may cause central nervous system disorder and or damage. Repeated exposure of the actual product may aggravate existing liver ailments.

## **SECTION 7 - FIRST AID**

**Inhaled:** In emergency situations, use proper respiratory protection and immediately remove the victim to fresh air. Administer artificial respiration if breathing has stopped. Seek medical attention promptly in serious cases of over exposure.

**Eyes:** Flush eyes with tepid water for 15 minutes. Seek immediate medical advice immediately.

**Skin:** Avoid skin contact with the liquid. Remove contaminated clothing and wash the exposed area with soap and water.

**Frostbite: Can occur from the propellant used to expel product.** Obtain medical assistance. If medical assistance is not available immediately, place person in a warm area as soon as possible and allow the injured area to warm gradually. **DO NOT WARM EXPOSED AREA TO EXCESS HEAT OR COLD.**

**Ingestion:** In case of accidental ingestion, drink two glasses of water, induce vomiting and seek immediate medical attention.

## **SECTION 8 - SAFE HANDLING**

**Spills: Product:** Soak up with absorbent, dispose of as per your city regulation.

**Waste Disposal Method:** Dispose of product in accordance with local, county state, provincial and federal regulations.

**Storage, Handling, Shipping:** Store in a cool, well-ventilated area. Store away from heat, spark, flame and/or static discharge.

**Other Precautions:** Keep container closed.

## **SECTION 9 -PERSONAL PROTECTION**

**Engineering Controls: Use only in a well ventilated area!** Ensure there is good ventilation. If additional ventilation is needed use auxiliary ventilation equipment ensuring that all systems are well grounded and spark proof.

**Eyes:** Wear safety chemical safety glasses with side shields and/or goggles.

**Gloves:** Use thermal, chemical resistant, PVC coated gloves when handling this product.

**Other protective clothing:** Long sleeves, pants and close-toed shoes.

**Respiratory Protection:** If ventilation of the area is not adequate use a NIOSH approved respirator to prevent overexposure by inhalation.

## **SECTION 10 -PREPARATION**

Duracool Refrigerants, Inc., 10260 - 21 Street NW. Edmonton, Alberta T6P 1W4 Canada

Telephone (780) 449-4777

Prepared: June 6, 2004 Revised June 26, 2008

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